

## CLAIMS:

1. An electronic circuit that includes at least one sequential logic element (12) that comprises:
  - at least one clock terminal for receiving a clock signal (CLK);
  - at least one input terminal (D) for receiving an input signal (I);
  - 5 - at least one output terminal (Q) for providing an output signal (O);characterized in that said electronic circuit further comprises:
  - circuitry (20) for monitoring said input and output signals (I, O) to provide a control signal (CS) in response to said input and output signals (I, O); and means for controlling a power consumption of the electronic circuit in response to said control signal
  - 10 (CS).
2. An electronic circuit as claimed in claim 1, characterized in that it is capable of being controlled at a rate determined by the clock signal (CLK).
- 15 3. An electronic circuit as claimed in claims 1 or 2 characterized in that it is capable of providing information relating to future power consumption.
4. An electronic circuit as claimed in any of the preceding claims, characterized by its ability of having future power consumption being controllable in advance based upon
- 20 past logical events.
5. An apparatus that includes an electronic circuit as claimed in claim 1.
6. A method of controlling power consumption of an electronic circuit that
- 25 includes at least one sequential logic element (12) that comprises:
  - at least one clock terminal for receiving a clock signal (CLK);
  - at least one input terminal (D) for receiving an input signal (I);
  - at least one output terminal (Q) for providing an output signal (O);characterized in that the method comprises the steps of:

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- monitoring said input and output signals (I, O);
  - providing a control signal (CS) in response to the input and output signals (I, O); and
  - operatively controlling the power consumption in response to the control
- 5 signal.